## **Claims**

1. A method for converting an input image having a first format to an output image having a second format, wherein the input image and the output image are each defined by a plurality of pixels, comprising:

receiving the input image;

5

10

15

20

25

30

converting each pixel of the input image to a corresponding pixel for an output image in accord with a map setting forth a predefined relationship between the first format and the second format, thereby creating the output image;

formatting the output image; and displaying the formatted output image.

- 2. The method of claim 1, wherein the converting step includes creating the map as a matrix that sets forth predefined relationships between one type of format as an input image and another type of format as an output image.
- 3. The method of claim 1, wherein the converting step comprises the sequential steps:

converting the color space of the input image;

scaling the input image;

creating additional views as needed;

swapping views;

preparing a presentation of the output image for a particular format type; centering the presentation;

formatting the presentation thereby creating a formatted output image; and

displaying the formatted output image.

4. The method of claim 3, further comprising inverting the input image after the scaling step and before the creating step.

- 5. The method of claim 3, further comprising aligning the views after the creating step and before the swapping step.
- 6. The method of claim 3, further comprising arranging a predefined view wherein a single frame contains nine views, then interzigging the views, after the swapping step and before the preparing step.
  - 7. The method of claim 1, wherein the input image is a planar image, further comprising creating a stereo image pair from the planar image.
  - 8. The method of claim 7, wherein the creating step comprises: scaling the planar image by a fixed percentage to create a scaled image; copying the scaled image to create a complimentary image; shifting the complimentary image by a smaller percentage of the fixed percentage;

extracting a centered image from the scaled image; and extracting a centered image from the shifted complimentary image.

- 10. The method of claim 9, wherein the smaller percentage is half.
- 11. The method of claim 7, wherein the creating step comprises: scaling the planar image by a fixed percentage to create a scaled image; copying the scaled image to create a complimentary image; skewing the complimentary image by a smaller percentage of the fixed percentage;

extracting a centered image from the scaled image; and extracting a centered image from the shifted complimentary image.

12. The method of claim 11, wherein the smaller percentage is half.

25

5

10

15

20

- 13. A device for converting an input image having a first format to an output image having a second format, wherein the input image and the output image are each defined by a plurality of pixels, comprising a software-enabled matrix that sets forth predefined relationships between one type of format as an input image and another type of format as an output image, and a processor configured to identify the first format of the input image and convert it using the matrix to an output image having the second format.
- 14. A device according to claim 13, wherein the matrix contains for each type of image format a pre-defined correspondence between a pixel from the input image and a pixel for the output image.